



Repeater: NØDX 145.190 MHz (Input 144.590 / Tone 192.8 Hz)



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## The Eastern Iowa DX Bulletin

Number 276, May 30, 2025

**Craig Fastenow, KØCF, Editor**

This bulletin is a compilation of **currently active** DX operations (or those that will become active within the current week) from recent issues of the three DX bulletins listed below and other sources. Credit for the source is given at the end of each article.

Articles are ordered by the entity's callsign prefix from the *ARRL DXCC Entities List*. Callsigns used are in **bold** with dates of operation highlighted in **red**. Clickable links are provided for QSL and other information wherever possible. Note that articles may be edited for grammar, language, style and accuracy and will remain in *The Bulletin* while active; articles that are announcements of ongoing operations, or that have no specified end date, will be removed after three weeks.

Also included is a [Propagation](#) section, updated daily; and a [Contest Calendar](#) of upcoming popular contests.

DX News items are courtesy of:

The ARRL DX Bulletin

The bulletin is available at <http://www.arrl.org>

425 DX News, A.R.I. DX Bulletin (425DXN)

Edited by Mauro Pregliasco, I1JQJ & Valeria Pregliasco, IK1ADH

425 DX News Home Page: <https://www.425dxn.org/>

425 DX News Google Group: <https://groups.google.com/g/425eng>

DX Newsletter (DXNL)

Edited by Andreas Salder, DK5ON

A weekly service of DARC Committee "DX", <http://www.darcdxhf.de>

Propagation data is from:

National Oceanic and Atmospheric Administration's

[Space Weather Prediction Center](#)

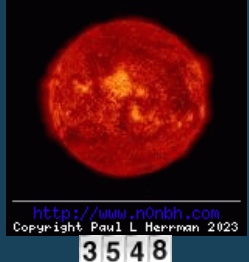
Dr. Tony Phillips' [SpaceWeather.com](http://SpaceWeather.com), used by permission

Contest data courtesy of the [WA7BNM Contest Calendar](#)



### Solar-Terrestrial Data

31 May 2025 1718 GMT  
 SFI: 157 SN: 96  
 A-Index: 30  
 K-Index: 3  
 X-Ray: C2.4  
 304A: 127.8 @ SEM  
 Ptn Flx: 790  
 Elc Flx: 38100  
 Aurora: 2/n=1.99  
 Mag (Bz): 1.4  
 Solar Wind: 620.2  
 Geomag Field UNSETTLED  
 Sig Noise Lvl S2-S3  
 Current Solar Image



<http://www.nonbh.com>  
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## DX News

**3A, MONACO.** Special event call sign **3A1ØØA** will be QRV from **April 15th to June 30th** to commemorate the centenary of the IARU. Activity will be on 80 to 10 meters using CW, SSB, and various digital modes. QSL via LoTW.

-[ARRL DX Bulletin # 15 April 10, 2025] (0411-0627)

**3DA, KINGDOM OF ESWATINI.** Morten, LA9GY will be QRV as **3DAØGY** from **May 22nd to June 2nd**. Activity will be holiday style on 80 to 10 meters, with a focus on 20, 15 and 10 meters, using CW and SSB. QSL direct to [LA9GY](#).

-[ARRL DX Bulletin # 20 May 15, 2025] (0516-0606)

**3V, TUNISIA.** Giovanni, IT9PZM is now QRV as **3V8LL** from Djerba Island (AF-083). Activity is on the HF bands. QSL via operator's instructions.

-[ARRL DX Bulletin # 20 May 15, 2025] (0516-0606)

**4U/ITU, ITU HQ.** Special callsign **4UØITU** will be activated by the International Amateur Radio Club at ITU HQ in Geneva from **May 16th through the end of the year** in celebration of the 160th anniversary of the International Telecommunication Union. QSL via LoTW, [ClubLog's OQRS](#), or direct to IARC, P.O. Box 6, 1211 Geneva 20, Switzerland.

-[425DXN # 1775 May 10, 2025] (0516-0606)

**4X, ISRAEL.** Members of the Holyland DX Group operate as **4X8MG** on **May 30th and 31st** from the UNESCO Heritage site Tel Megiddo (also 4XFF-0037). QSL via [4Z5FI](#).

-[DXNL # 2460 May 28, 2025] (0530-0606)

**5R, MADAGASCAR.** Gianpi, IK1TTD will be active holiday style as **5R8TD** from Madagascar. He will be QRV from Nosy Be (AF-057) on **May 27th to June 4th**, and from Tsarabanjina, Mitsio Islands (AF-057) on **June 4th to 11th**. QSOs will be uploaded to ClubLog and hopefully livestreamed on <https://www.qsohunter.net/it/Index/353>. QSL via [IK1TTD](#).

-[425DXN # 1776 May 17, 2025] (0523-0606)

**7P, LESOTHO.** Mark, KW4XJ and Arina, KO4PZT are QRV as **7P8AB** and **7P8NB**, respectively, **until mid-2025**. QSL via [KW4XJ](#).

-[ARRL DX Bulletin # 18 May 1, 2025] (0502-0613)

**9G, GHANA.** Tommy, ON2TD is now QRV as **9G5TD**. Activity is holiday style mostly on 20 meters using SSB. His length of stay is unknown. QSL to [ON2TD](#).

-[ARRL DX Bulletin # 20 May 15, 2025] (0516-0606)

**9U, BURUNDI.** Antonio IK7WUL (ex 5VØDX, TY3AA, and 9G5IK) has now received the callsign **9UØDX** for Burundi. He plans to work during his spare time, mostly on 10m (SSB). QSL direct via [IK7WUL](#).

-[DXNL # 2460 May 28, 2025] (0530-0620)

**9X, RWANDA.** Antonio IK7WUL (ex 5VØDX, TY3AA, and 9G5IK) has now received the callsign **9XØDX** for Rwanda. He plans to work during his spare time, mostly on 10m (SSB). QSL direct via [IK7WUL](#).

-[DXNL # 2460 May 28, 2025] (0530-0620)

**CEØX, SAN FELIX & SAN AMBROSIO.** Felipe, XQ7IR is planning to activate San Ambrosio Island (SA-013) sometime in **October or November 2025**. Plans are for two stations (one operated locally using SSB and FT8 and one operated remotely on CW and FT8) to be active as **3GØXQ** on 160-10 meters. This DXCC Entity is **#3 on the Most Wanted list** and has been silent since the XRØX DXpedition in 2002. See <https://www.sanambrosio-project.com> for updates.

-[425DXN # 1777 May 24, 2025] (0523-0606)

**DL, GERMANY.** Special callsign **DMØLIMES** will be active from **May 1st to July 1st** for this year's German World Heritage Day (June 1st). Also active will be **DM3LIMES** on **May 31st - June 1st**. The Limes was the border line of the Roman Empire at its greatest extent. In 2005, the remnants of the Upper German-Raetian Limes were inscribed on the UNESCO World Heritage list as "Frontiers of the Roman Empire". QSL both via the bureau.

-[425DXN # 1773 April 26, 2025] (0425-0627)

**DU, PHILIPPINES.** Ed, 4F1OZ, remains active as **DXØWPS** from Lubang Island (OC-126) **until May 31st** on 160-10m (CW, SSB, FT8). QSL via [4F1OZ](#).

-[DXNL # 2460 May 28, 2025] (0530-0606)

**DXCC TOP TWENTY.** Here are the top 20 entities on ClubLog's "DXCC Most Wanted" list as of May 29, 2025:

1. P5	DPRK (North Korea)	11. VKØM	Macquarie Island
2. BS7H	Scarborough Reef	12. KH4	Midway Island
3. CEØX	San Felix Islands	13. PYØS	Saint Peter And Paul Rocks
4. BV9P	Pratas Island	14. KP5	Desecheo Island
5. KH7K	Kure Island	15. VPØS	South Sandwich Islands

6. KH3	Johnston Island	16. ZL9	New Zealand Subantarctic Islands
7. 3Y/P	Peter 1 Island	17. FK/C	Chesterfield Islands
8. FT5/X	Kerguelen Island	18. VKØH	Heard Island
9. YVØ	Aves Island	19. FT/T	Tromelin Island
10. 3Y/B	Bouvet Island	20. EZ	Turkmenistan

For the complete list, see <https://clublog.org/mostwanted.php>

-[KØCF May 30, 2025] (0530-0620)

**E6, NIUE.** Bob, ZL1RS will be active as **E6RS** from Niue (OC-040) from **May 27th to June 2nd**. He will be QRV primarily on 6 meters FT8, with the main focus on ionospheric propagation and some activity on 10 meters if the Magic Band is closed. He will also be on 6m EME for about one hour at each moonrise and moonset. For more information see [https://www.qsl.net/zl1rs/e6\\_eme.html](https://www.qsl.net/zl1rs/e6_eme.html). QSOs will be uploaded to ClubLog and LoTW. QSL via [ZL1RS](#), LoTW.

-[425DXN # 1776 May 17, 2025] (0523-0606)

**EA, SPAIN.** Members of Cartagena Team will be active as **AO5APA** on **June 1st-15th**. The special callsigns marks the 40th anniversary of the Patrulla Aguila ("Eagle Patrol"), the aerobatic demonstration team of the Spanish Air and Space Force. QSL via [EA5GTU](#).

-[425DXN # 1778 May 31, 2025] (0530-0620)

**EA8, CANARY IS.** Mike, HB9MBS plans to be QRV as **EA8/HB9MBS** from Los Quemados from **June 1st to 29th**. QSL to [HB9MBS](#).

-[ARRL DX Bulletin # 22 May 29, 2025] (0530-0704)

**F, FRANCE.** Once again the Association des Radioamateurs de la Sarthe (F6KFI) will operate a special event station for the 24 Hours of Le Mans. Look for **TM24H** on **June 1st-15th**, with activity on various bands and modes. QSL via [F6KFI](#).

-[425DXN # 1778 May 31, 2025] (0530-0620)

**F, FRANCE.** Special callsign **TM61TC** will be activated on **June 1st-5th** celebrating Claude Chappe's invention of the optical telegraph, the first practical telecommunications system of the industrial age. QSL via the bureau.

-[425DXN # 1778 May 31, 2025] (0530-0606)

**F, FRANCE.** Members of the F4KIS radio club will be active as **TM41GM** from **May 27th to June 10th**. The suffix stands for "greve des mineurs", the strike of 100,000 miners of Nord-Pas-de-Calais in 1941 which was one of the earliest acts of collective resistance to Nazi occupation in France. Electronic QSLs will be available for download on <https://log-et-qsl.associations-radioamateurs.org/wp/boutique/>

-[425DXN # 1777 May 24, 2025] (0523-0613)

**F, FRANCE.** Special event callsign **TM1ØREF**, one of many celebrating the REF centenary, will be active from **April 25th to 27th**, **May 8th to 11th**, and **May 29th until June 1st**.

-[DXNL # 2455 April 23, 2025] (0425-0606)

**F, FRANCE.** Special callsigns **TM1ØØI**, **TM1ØØA**, **TM1ØØR** and **TM1ØØU** by the Radio Club Pierre Coulon (F5KMB) celebrate the centenary of the International Amateur Radio Union from **April 12th to July 13th**. QSL via eQSL only; paper cards will not be provided.

-[425DXN # 1771 April 12, 2025] (0411-0711)

**FJ, SAINT BARTHELEMY.** Otis, NP4G will be QRV as **FJ/NP4G** from **May 27th to June 2nd** from the new POTA reference BL-0001. QSL via LoTW.

-[ARRL DX Bulletin # 21 May 22, 2025] (0523-0606)

**FO, FRENCH POLYNESIA.** Didier, F6BCW will be active as **TX5U** from Tikehau (OC-066), French Polynesia from **May 26th to June 8th**. He will operate CW and SSB (no FT8) on 40-6 meters. Full LoTW upload after six months. QSL via [ClubLog's OQRS](#), LoTW.

-[425DXN # 1773 April 26, 2025] (0523-0613)

**FS, ST. MARTIN.** John, K9EL will be active holiday style as **FS/K9EL** from St. Martin (NA-105) on **June 4th-18th**. He will focus on 6 meters when the band is open, with limited activity on 40-10 meters.

QSL via [ClubLog's OQRS](#) (preferred), LoTW, or via [K9EL](#).

-[425DXN # 1778 May 31, 2025] (0530-0620)

**HI, DOMINICAN REPUBLIC.** The Radio Club Dominicano (HI8RCD) celebrates its 99th anniversary with the callsign **HI99RCD** from **May 31st until June 15th**. QSL via e-mail or qrz.com.

-[DXNL # 2460 May 28, 2025] (0530-0620)

**HP, PANAMA.** Special event call sign **3E7D** is QRV **until June 1st**. QSL via [HP1AVS](#).

-[ARRL DX Bulletin # 17 April 24, 2025] (0425-0606)

**HS, THAILAND.** Special callsign **HS3ØDXA** commemorates the 30th anniversary of the Thailand DX Association (E28AC and E2X). Look for activity from **May 23rd to June 21st**, on all HF bands and the 2m band, including the amateur radio satellites. QSL via [HS6MYW](#).

-[425DXN # 1777 May 24, 2025] (0523-0620)

**I, ITALY.** Antonio, IK8VRH and Antonio, IW8BVN will be active from Ventotene Island (EU-045) from **May 30th to June 2nd**. They will operate SSB and digital as **IBØDX** on 40-10 meters, and as **IRØDX** on 6 meters. QSOs will be uploaded to LoTW and ClubLog. QSL via [IK8VRH](#).

-[425DXN # 1777 May 24, 2025] (0530-0606)

**ISØ, SARDINIA.** Luca, IK5AEQ will be QRV as **ISØ/IK5AEQ** from Sinis Peninsula from **June 2nd to 6th**. Activity will be on 40 to 6 meters using SSB, RTTY, and FT8. His operation will cover several parks that are new to the POTA program, and will be valid for the province of Oristano for the WAIP program. QSL to [IK5AEQ](#).

-[ARRL DX Bulletin # 22 May 29, 2025] (0530-0606)

**J6, SAINT LUCIA.** Matts, SMØFPR, operates holiday-style as **J6/SMØFPR** from **May 26th to June 8th**, mostly on CW, some SSB. QSL via [ClubLog's OQRS](#), LoTW.

-[DXNL # 2459 May 21, 2025] (0523-0613)

**JA, JAPAN.** Take, JI3DST will be active again as **JS6RRR** from Miyako Island (AS-079) from **April 23rd to June 18th**. Other callsigns to be used are **JI3DST/6**, **JJ5RBH/6** and **JA3YEC/6**, as well as **JI3DST/p**, **JJ5RBH/p** and **JA3YEC/p** on FT8. QSOs will be made available for ClubLog and LoTW matching on the IOTA website. QSL via [ClubLog's OQRS](#).

-[425DXN # 1774 May 3, 2025] (0502-0620)

**JD1/M, MINAMI TORISHIMA.** Take, JG8NQJ is QRV as **JG8NQJ/JD1** **until June 20th**. Activity is in his spare time on the HF bands using CW and FT8. QSL via [JA8CJY](#) (direct), JG8NQJ (bureau) and LoTW.

-[ARRL DX Bulletin # 16 April 17, 2025] (0418-0620)

**KH8, AMERICAN SAMOA.** Bob, KØNR and Joyce, KØJJW will be QRV as **KH8/KØNR** and **KH8/KØJJW**, respectively, from **May 27th to June 9th**. Activity is primarily on 20 to 10 meters using SSB, FT8, and FT4 while activating various SOTA and POTA locations. QSL via LoTW only.

-[ARRL DX Bulletin # 21 May 22, 2025] (0523-0613)

**OE, AUSTRIA.** Special callsign **OE7ØOE** celebrates the Austrian State Treaty of 70 years ago **until the end of June**.

-[DXNL # 2459 May 21, 2025] (0523-0627)

**OJØ, MARKET REEF.** Diego, IZØEWJ will be QRV as **OJØL** from **May 31st to June 7th**. Activity is on 80 to 6 meters using SSB and various digital modes. QSL via [I8KHC](#).

-[ARRL DX Bulletin # 22 May 29, 2025] (0530-0606)

**ON, BELGIUM.** Special callsign **OT25EPIC** by the Antwerp Port Contest Club (ON8APC) promotes this year's edition of the Antwerp Port Epic cycling race. Look for activity from **May 10th until June 9th** (the actual day of the race). QSL via [ON8JJ](#).

-[425DXN # 1774 May 3, 2025] (0509-0613)

**OX, GREENLAND.** Bo, OZ1DJJ will be active as **OX3LX** from two locations on the main island of Greenland (NA-018): Kangerlussuaq (GP47pa) on **June 5th-9th**, and Nuuk (GP44de) on June **10th-**



**22nd.** As always, this will be a working trip, and he will be QRV only in his spare time. QSL via [OZØJ](#), [ClubLog's OQRS](#) and LoTW.

-[425DXN # 1778 May 31, 2025] (0530-0627)

**OY, FAROE IS.** A group of operators will be QRV as **OY6FRA**, **OY/W9MK**, and **OY/K4LT** from **June 1st to 10th**. Activity will be on 160 to 6 meters using CW, SSB, and FT8. They will also be active as **OY6A** in the upcoming ARRL Digital contest (June 7th-8th). See <https://faroeis.com/> for more information. Full upload to LoTW 6 months after the expedition. QSL all calls via [WB2REM](#) or [ClubLog's OQRS](#).

-[ARRL DX Bulletin # 22 May 29, 2025] (0530-0613)

**PA, NETHERLANDS.** Special event station **PA2Ø25NATO** will be QRV during the **month of June** to highlight the 2025 NATO Summit to be held in the Hague. QSL via bureau or direct to [PA2Ø25NATO](#).

-[ARRL DX Bulletin # 22 May 29, 2025] (0530-0704)

**PA, NETHERLANDS.** Peter, PD1RP is QRV with special event station **PD8ØFREE** **until June 30th** to celebrate the 80 years of liberation since World War II. Activity is on 40, 20, 10, and 2 meters using CW, SSB, and digital modes. QSLs sent to all contacts via the bureau. No QSL or request needed.

-[ARRL DX Bulletin # 15 April 10, 2025] (0411-0627)

**S7, SEYCHELLES.** Chris, DC6GF is QRV as **S79/DC6GF** from Praslin and LaDigue, all IOTA AF-024, **until June 6th**. Activity is on 20, 17, 15, 12, and 10 meters using FT8 and FT4 with low power. QSL to [DC6GF](#).

-[ARRL DX Bulletin # 22 May 29, 2025] (0530-0606)

**T8, PALAU.** Operators Kaz, JR2JGR, Tetsu, JF1GHX and Yoshi, JK1SZX are QRV as **T88DZ**, **T88HF**, and **T88SG**, respectively, from Koror (OC-009) **until June 1st**. Activity is on various bands using SSB and FT8. QSL T88DZm via [JR2JGR](#), T88HF via [JF1GHX](#), and T88SG via [JK1SZX](#).

-[ARRL DX Bulletin # 21 May 22, 2025] (0523-0606)

**TI, COSTA RICA.** Guy, N7ZG is QRV as **TI8/N7ZG** from Playa Zancudo. His length of stay is unknown. This includes being a Single Op/All Band/High Power entry in the CQ WPX CW contest (May 24th-25th). QSL via [EA3GL](#).

-[ARRL DX Bulletin # 21 May 22, 2025] (0523-0613)

**TR, GABON.** Roland, F8EN, QRV as **TR8CR** is currently one of the few active stations in the country. He plans to celebrate his 97th birthday in Libreville and then in **mid-June** return to France permanently. QSL via [F6AJA](#).

-[DXNL # 2460 May 28, 2025] (0530-0620)

**V4, ST. KITTS & NEVIS.** Rick, W4IO is QRV as **V4/W4IO** from St. Kitts (NA-104) **until June 7th**. Activity is on 40 to 10 meters using mostly FT8. QSL to [W4IO](#) or LoTW.

-[ARRL DX Bulletin # 22 May 29, 2025] (0530-0606)

**V5, NAMIBIA.** Remo, HB9SHD is QRV as **V51/HB9SHD** **until June 15th**. Activity is holiday style on 40 to 6 meters using SSB and various digital modes. QSL via LoTW.

-[ARRL DX Bulletin # 18 May 1, 2025] (0502-0620)

**VE, CANADA.** To celebrate the 65th anniversary of the Dobson Trail, Canada's longest volunteer-maintained trail, special event station **VC9DT** will be active **throughout June**. It will be operated by VE9ACC and friends from various locations along the 60-kilometer trail, including several WWFF (World Wide Flora & Fauna) sites. Operators will be QRV on multiple bands on SSB and FT8/FT4. See <https://www.qrz.com/db/VC9DT> for award information and further details. QSL via [VE9CF](#).

-[425DXN # 1777 May 24, 2025] (0530-0627)

**VP8, FALKLAND IS.** Gerry, G3WIP, now that he is retired, has moved from Ascension Island (ZD8GB) to Port Stanley and plans to operate as **VP8DPD** from **May 10th until July 12th**, mostly on 20-10m. QSL via [EA5GL](#).

-[DXNL # 2458 May 14, 2025] (0516-0711)

**VU, INDIA.** A group of Indian amateurs plans to activate Arnala Island (AS-169) with the callsign **AU2M** until **May 31st** on 80-10m (CW, SSB, digital modes) and via QO-100. This will be the first activation since 2006! QSL via [MØOXO's OQRS](#).

-[DXNL # 2460 May 28, 2025] (0530-0606)

**ZC4, UK SOVEREIGN BASE AREAS ON CYPRUS.** Martin, MWØBRO will be active again as **ZC4GW** from Dhekelia from **May 28th to June 9th**. He will operate CW, some SSB and "definitely no digital modes" on 40-6 meters. QSL via [MØURX's OQRS](#).

-[425DXN # 1777 May 24, 2025] (0523-0613)

**ZL, NEW ZEALAND.** Special callsign **ZL100IARU** will be used by New Zealand's IARU member society, NZART, to celebrate the 100th anniversary of the International Amateur Radio Union until **July 31st**. QSOs will be uploaded to QRZ Logbook and LoTW.

-[425DXN # 1776 May 17, 2025] (0516-0801)

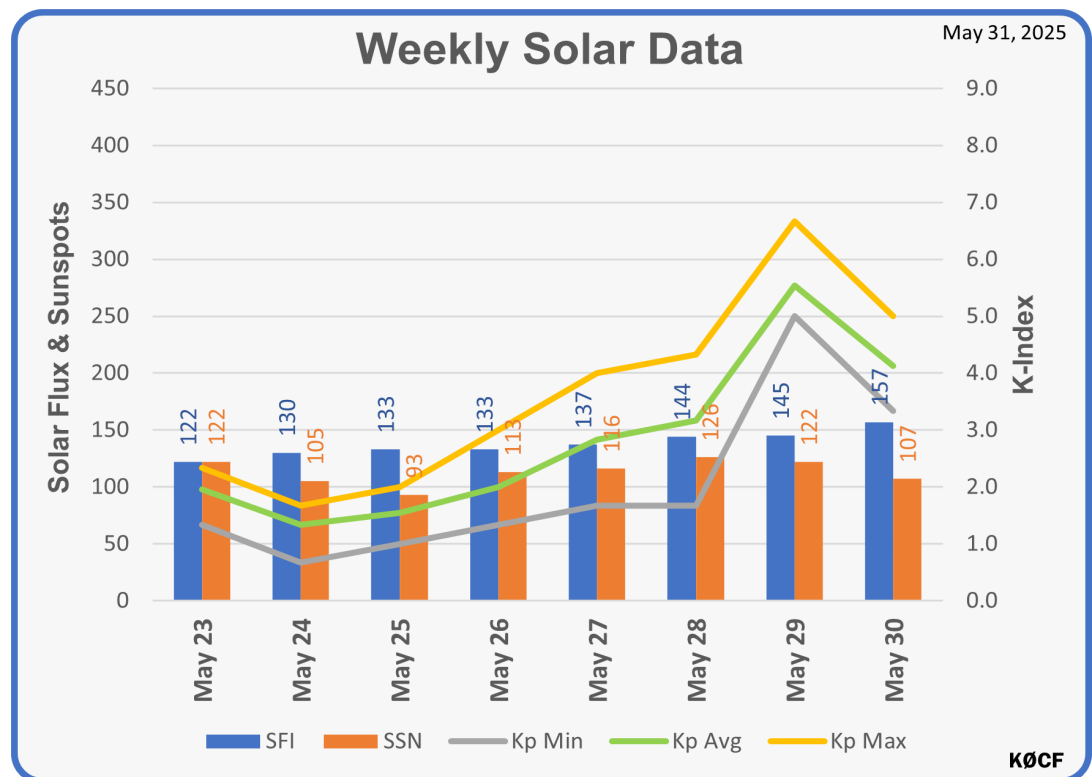
**ZL7, CHATHAM IS.** Holger, DL3IO is QRV as **ZL7IO** from Waitangi (OC-038) until **June 26th** while working on equipment repairs. He may be active as a Single Op/Single Band/Low Power 40 meter entry in the CQ WPX CW contest (May 24th-25th). QSL via LoTW, [ClubLog's OQRS](#) (preferred), or via [DK7AQ](#).

-[ARRL DX Bulletin # 21 May 22, 2025] (0523-0627)

**ZP, PARAGUAY.** Vlad, OK2WX is QRV as **ZP6WX** until **June 8th**. Activity is on 80 to 6 meters. QSL via LoTW.

-[ARRL DX Bulletin # 22 May 29, 2025] (0530-0613)

## Propagation (Updated daily)



The Weekly Solar Data chart plots Solar Flux Index (SFI), Sunspot number (SSN) and Planetary K-Index (Kp) for the past 8 days. With 8 Planetary K-index readings each day, only the minimum, average and maximum K-index values are plotted. **Note:** You may click [here](#) or on the chart above to see the same data for the past month.

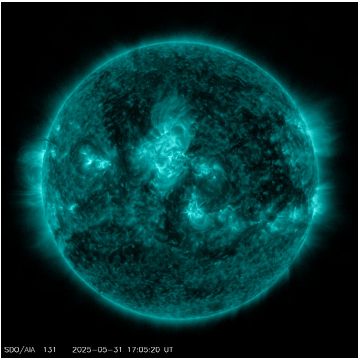
The Daily Solar Flux Index, Sunspot number, Planetary K-index, Solar Flux predictions and Solar Flare data used in this bulletin have been collected by KØCF from from the U.S. Department of Commerce's NOAA Space Weather Prediction Center.

The propagation graphs above are the creations of KØCF and are unique in space weather reporting.

*Please Note: The graphs are high resolution .PNG files which you may view in greater detail using your browser's "zoom" feature. Alternatively, right click on the graph and select "Open Image in New Tab" to enlarge it, or "Save Image As..." to save it to your computer for further analysis.*

NASA's current view of the Sun at a wave-length of 131 Angstroms. This wavelength shows incredible solar detail.

Click [here](#) or on the image to view as a full screen 48-hour video loop. It is fascinating!



**Propagation Summary**

For the 8 day period from Friday, May 23rd through yesterday, May 30th.

The average solar flux was 140, up 21 points from the previous week, with a weekly high of 157 on Friday, May 30th, following a low of 122 on May 23rd.

The average sunspot count was 112, up 33 from last week, peaking at 126 on Wednesday, May 28th after a weekly low of 93 on May 25th.

The Planetary K-index weekly average was 3.6 with a maximum of 6.7 on Thursday, May 29th, indicating a moderate geomagnetic storm. Yesterday's K-index maximum was 5.0 with a minor geomagnetic storm.

Solar flare activity since May 24th has been moderate with 11 major flares, the largest of which was a major X 1.1 event on Sunday, May 25th.

**Propagation Data**

Major solar flares, Saturday, May 24th through 1318 UTC, May 31st.

#	Date	UTC	Mag.
1	May 31	0818	M 4.5
2	May 31	0518	M 2.4
3	May 31	0005	M 8.1
4	May 30	0613	M 3.4
5	May 26	1337	M 1.4
6	May 26	1306	M 2.9
7	May 25	1630	M 8.9
8	May 25	1018	M 3.4
9	May 25	0635	M 1.7
10	May 25	0152	X 1.1
11	May 24	2023	M 2.1

(NOAA's graph of recent flare activity: [GOES-X-Ray-Flux](#))

From the NOAA Space Weather Prediction Center, here are the probabilities of major solar flares and the predicted 10.7 cm Solar Flux for the next 3 days. NOAA updates this information daily.

Date	M-Flares	X-Flares	Solar Flux
May 31	50%	10%	155
Jun 1	50%	10%	150
Jun 2	50%	10%	145

Looking farther ahead, here is the NOAA Space Weather Prediction Center forecast of 10.7 cm radio flux and maximum Planetary K-index (Kp) for the next 12 days. This data is updated by NOAA every Monday (last updated on May 26, 2025).

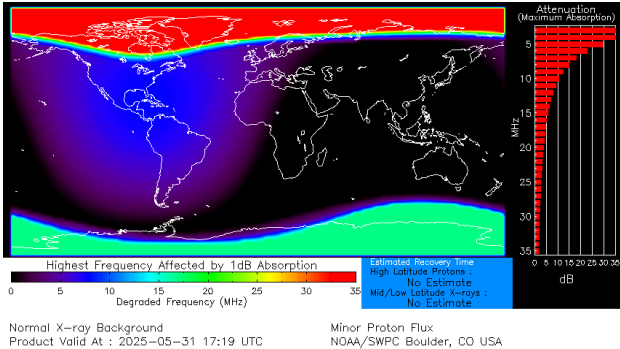
Date	Flux	Kp
May 31	125	3
Jun 1	120	3
Jun 2	115	4
Jun 3	110	3

Date	Flux	Kp
Jun 4	110	3
Jun 5	115	4
Jun 6	120	3
Jun 7	125	3

Date	Flux	Kp
Jun 8	125	2
Jun 9	120	2
Jun 10	115	4
Jun 11	120	4

Global D Region Absorption

Conditions in the D-region of the ionosphere have a dramatic effect on HF communications. The D-Region Absorption map combines the effects of solar particles and photons. Yellow to red colors on the map depict increasing signal attenuation, where the bar chart at the right displays attenuation versus frequency. Click the thumbnail below for an animated map of D-Region Absorption:

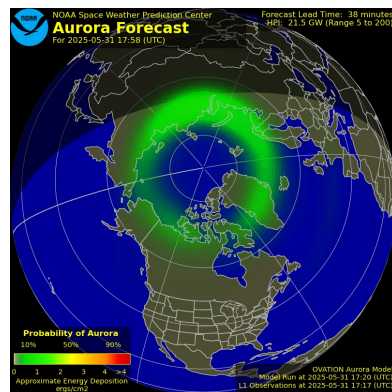


The Aurora Borealis

The aurora is not only beautiful to see but can have a profound impact on HF and VHF radio propagation. For the HF operator, auroras can result in a complete shut-down of propagation. However, on VHF, auroras present interesting DX possibilities. Beam antennas are very desirable and should be pointed north, towards the aurora. Signals are reflected by “back-scatter” and will be distorted with a rough buzz. SSB is the best voice mode to use, but copy can be difficult. CW will have a rough buzzy sound but be perfectly copyable. Click the thumbnail below for an animated map of



aurora versus time:



## Highs for Cycle 25

Solar Flux: 336 on August 8, 2024.

Sunspots: 382 on August 10, 2024.

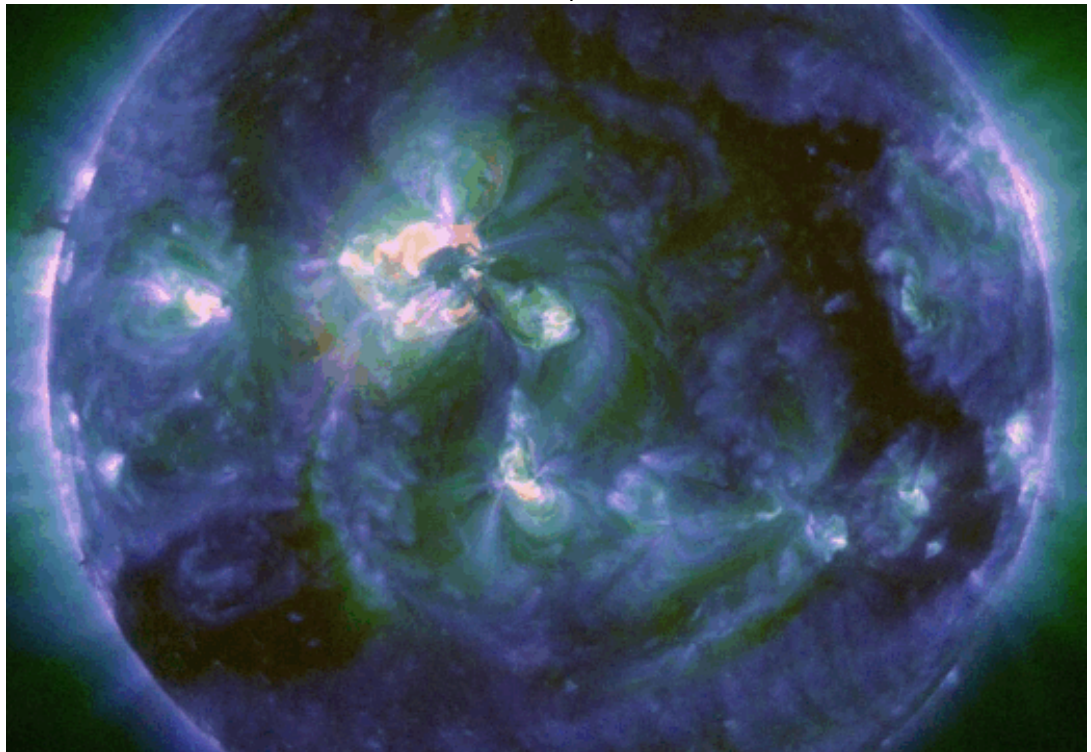
## Strong Geomagnetic Storm Watch

A CME is heading straight for Earth--see below. [A NASA model](#) predicts it will strike Earth during the early hours of June 1st. The impact could spark strong (G3-class) geomagnetic storms with auroras at mid-latitudes.

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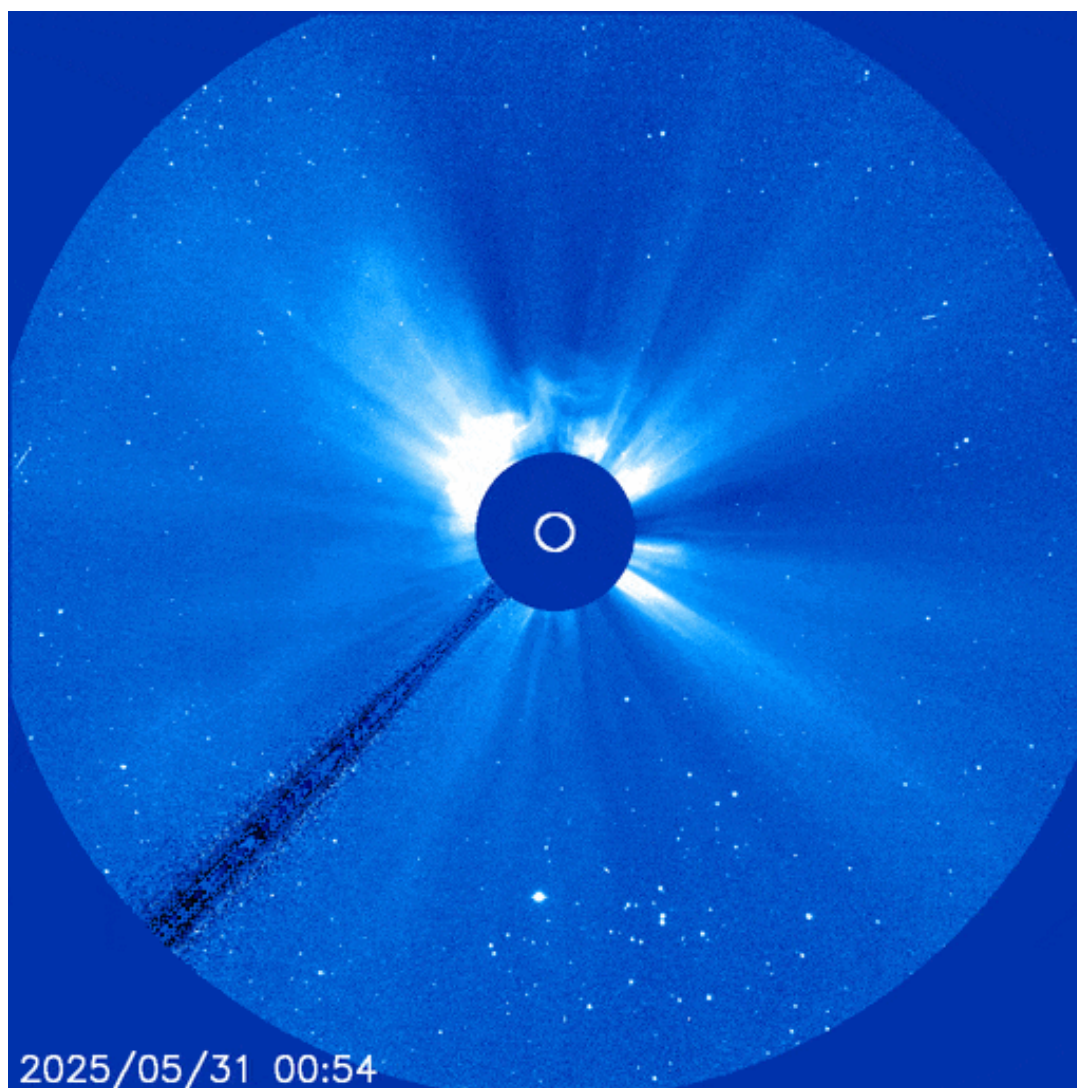
## Major Solar Flare and Halo CME

Big old sunspot 4100 finally exploded--and it was a doozy. On May 31st at 00:05 UTC, Earth-orbiting satellites detected an M8.2-class solar flare. The explosion lasted more than 3 hours:



Although the flare is not technically X-class, it's close. Moreover, it was a slow explosion with lots of power "under the curve." This is the type of flare that produces a significant CME with strong geomagnetic storms if the CME hits Earth.

Spoiler alert: The CME will definitely hit Earth. Shortly after the explosion, SOHO coronagraphs recorded a bright halo CME heading directly for our planet:



Type II radio emissions from shock waves within this CME suggest it is traveling 1,938 km/s--which is to say, very fast. When it strikes Earth, the CME could spark strong geomagnetic storms with mid-latitude auroras. Stay tuned for updates about this potentially significant Earth-directed event. (Copyright © [SpaceWeather.com](https://www.spaceweather.com/) May 31, 2025. Republished by permission.)

### Popular Propagation web sites

<https://prop.kc2g.com/> (Excellent Maximum Usable Frequency map)

NOAA <https://www.swpc.noaa.gov/>

<https://www.spaceweather.com/>

<https://www.solarham.com/>

<https://dx.gsl.net/propagation/>

### A Propagation Tutorial

The solar X-ray flux tracks solar activity and solar flares. Solar flux, which can vary from as low as 50 to as high as 300, influences the level of ionization in the F2 region of the ionosphere, providing a very good prediction of HF DX conditions. The higher the solar flux, the better conditions will be for the higher HF frequencies and even 6 meters. However, the levels need to be maintained for some days to allow ionization in the F2 layer to build up. A solar flux of 150 results in good HF band conditions, while levels of 200 and up can provide great conditions.

Large X-ray flares on the sun can increase the ionization of the D layer of the ionosphere (a lower layer) on the sunlit side of the Earth, greatly attenuating or blocking HF radio transmissions for up to a half hour. Solar flares often produce Coronal Mass Ejections (CMEs) which, if Earth directed, can lead to geomagnetic storms. Some large flares are also accompanied by strong radio bursts that may interfere with other radio frequencies and cause problems for satellite communication and radio

navigation (GPS).

The Planetary K-index is a measure of the magnitude of geomagnetic storms and is an excellent indicator of disturbances in the Earth's magnetic field. A level of 1 or 2 represents quiet geomagnetic conditions; a reading of 3 or 4 may cause some propagation deterioration; 5 and 6 are minor to moderate geomagnetic storms; and 7 to 9 are strong, severe, and extreme storm conditions. Strong geomagnetic storms can trigger Auroral displays and cause HF radio blackouts. Higher geomagnetic activity also has the adverse effect of lowering maximum usable frequencies, much like lower solar flux does.

For best conditions, the solar flux should be above 150 for a few days with the K index below 2. When these conditions are met, some good DX is likely!

-[Compiled from information on NOAA.gov and other sources]

## Contest Calendar

### Weekly Contests

Contest	Start UTC		End	Web Site
K1USN Slow Speed Test	Monday	0000Z	0100Z	<a href="#">Rules</a>
ICWC Medium Speed Test	Monday	1300Z	1400Z	<a href="#">Rules</a>
	Monday	1900Z	2000Z	
	Tuesday	0300Z	0400Z	
CWops Test (CWT)	Wednesday	1300Z	1400Z	<a href="#">Rules</a>
	Wednesday	1900Z	2000Z	
	Thursday	0300Z	0400Z	
	Thursday	0700Z	0800Z	
Weekly RTTY Test	Friday	0145Z	0215Z	<a href="#">Rules</a>
NCCC CW Sprint (NS)	Friday	0230Z	0300Z	<a href="#">Rules</a>

Note: Start Days are in UTC, e.g. Monday at 0000 UTC is Sunday at 7:00 PM in the Central Daylight Saving Time zone, or Sunday at 6:00 PM in the Central Standard Time zone.

### Full Calendar

Contest	Start		End		Web Site
Kentucky QSO Party	Jun 7	1300Z	Jun 8	0100Z	<a href="#">Rules</a>
<b>ARRL Inter. Digital Contest</b>	Jun 7	1800Z	Jun 8	2400Z	<a href="#">Rules</a>
ARRL June VHF Contest	Jun 14	1800Z	Jun 16	0300Z	<a href="#">Rules</a>
Stew Perry Topband Challenge	Jun 21	1500Z	Jun 22	1500Z	<a href="#">Rules</a>
West Virginia QSO Party	Jun 21	1600Z	Jun 22	0400Z	<a href="#">Rules</a>
ARRL Kids Day	Jun 21	1800Z	Jun 21	2359Z	<a href="#">Rules</a>
His Maj. King of Spain Contest, SSB	Jun 28	1200Z	Jun 29	1200Z	<a href="#">Rules</a>
<b>ARRL Field Day</b>	Jun 28	1800Z	Jun 29	2100Z	<a href="#">Rules</a>
RAC Canada Day Contest	Jul 1	0000Z	Jul 1	2359Z	<a href="#">Rules</a>

<b>IARU HF World Championship</b>	Jul 12	1200Z	Jul 13	1200Z	<a href="#">Rules</a>
North American QSO Party, RTTY	Jul 19	1800Z	Jul 20	0600Z	<a href="#">Rules</a>
CQ Worldwide VHF Contest	Jul 19	1800Z	Jul 20	2100Z	<a href="#">Rules</a>
North American QSO Party, CW	Aug 2	1800Z	Aug 3	0600Z	<a href="#">Rules</a>
<b>WAE DX Contest, CW</b>	Aug 9	0000Z	Aug 10	2359Z	<a href="#">Rules</a>
Maryland-DC QSO Party	Aug 9	1400Z	Aug 10	0400Z	<a href="#">Rules</a>
<b>North American QSO Party, SSB</b>	Aug 16	1800Z	Aug 17	0600Z	<a href="#">Rules</a>
ARRL Rookie Roundup, RTTY	Aug 17	1800Z	Aug 17	2359Z	<a href="#">Rules</a>
Ohio QSO Party	Aug 23	1600Z	Aug 24	0400Z	<a href="#">Rules</a>
YO DX HF Contest	Aug 30	1200Z	Aug 31	1200Z	<a href="#">Rules</a>
World Wide Digi DX Contest	Aug 30	1200Z	Aug 31	1200Z	<a href="#">Rules</a>
Kansas QSO Party	Aug 30	1400Z	Aug 31	2000Z	<a href="#">Rules</a>

-[Contest data courtesy of the [WA7BNM Contest Calendar](#) ]